

Title (en)  
CRYOGENIC ACCUMULATOR FOR SPIN-POLARIZED XENON-129

Title (de)  
TIEFTEMPERATURSPEICHER FÜR SPIN-POLARISIERTES XENON-129

Title (fr)  
ACCUMULATEUR CRYOGENIQUE POUR XENON 129 POLARISE PAR SPIN

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Application  
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Priority

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Abstract (en)  
[origin: WO9737177A1] A method and apparatus for accumulation of hyperpolarized <129>X e is disclosed. The method and apparatus of the invention enable the continuous or episodic accumulation of flowing hyperpolarized <129>Xe in frozen form. The method also permits the accumulation of hyperpolarized <129>Xe. The invention further includes <129>Xe accumulation means (17) which is integrated with <129>Xe hyperpolarization means in a continuous or pulsed flow arrangement. The method and apparatus enable large scale production, storage, and usage of hyperpolarized <129>Xe for numerous purposes, including imaging of human and animal subjects through magnetic resonance imaging (MRI) techniques.

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